

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2015 Levee Inspection Results

Reclamation District No. 1600 Mull

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Reclamation District No. 1600 Mull

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	10.46
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/24/2015 - 03/24/2015			
DWR Inspector	Jai Lor			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start		Rating **	A	Issue No.	32
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD1600_01_s _ 2013_32				
Action/Comments					
Inspector Comments: RD 1600 has copies of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	33
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD1600_01_s _ 2013_33				
Action/Comments					
Inspector Comments: RD 1600 maintains a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	34
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD1600_01_s _ 2013_34				
Action/Comments					
Inspector Comments: RD 1600 has a written flood response plan and flood response training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	0.06	Rating **	M	Issue No.	1
LM End	0.06	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.675998 °	38.675998 °
				-121.630732 °	-121.630732 °
DWR ID	DWR_RD1600_01_s _ 2012_1				
Action/Comments					
Building					
Inspector Comments: This is the home and pumping plant for RD 2035.					

Photo 1 of 1 : SP_2015_RD1600_191_1_20150324_00001.jpg



The caretakers home for the operator of the pumping plant (RD 2035).
Fall 2013

LM Start	0.10	Rating **	M	Issue No.	129
LM End	0.10	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.676467 °	38.676467 °
				-121.631217 °	-121.631217 °
DWR ID	DWR_RD1600_01_f _ 2013_129				
Action/Comments					
Building Inspector Comments: This is a well pump house. It is potable water for the house and pumping plant.					

Photo 1 of 1 : SP_2015_RD1600_191_129_20150324_00039.jpg



The small building is a pump house for the well. It services the house with water. Fall 2013

LM Start	0.10	Rating **	C	Issue No.	29
LM End	0.10	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.676480 °	38.676480 °
				-121.631220 °	-121.631220 °
DWR ID	DWR_RD1600_01_s _ 2012_29				
Action/Comments					
Debris					
Inspector Comments: Pile of concrete.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	0.10	Rating **	A/W	Issue No.	49
LM End	0.23	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.676480 °	38.678140 °
				-121.631220 °	-121.632330 °
DWR ID	DWR_RD1600_01_s_2012_49				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : SP_2015_RD1600_191_49_20150324_00037.jpg



The revegetation area is fenced off but nobody has been caring for it.
Fall 2013

LM Start	0.10	Rating **	A/W	Issue No.	49 (cont)
LM End	0.23	Issue Type +	Ob	Location *	WS

Photo 2 of 2 : SP_2015_RD1600_191_49_20150324_00038.jpg



Revegetation site. Photo taken spring 2012.

LM Start	0.14	Rating **	M	Issue No.	3
LM End	0.14	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.676802 °	38.676802 °
				-121.631442 °	-121.631442 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15087					
DS_ID:21459					
EP_NO: 1929					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Line should be located with carsonite signs on both					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	0.53	Rating **	M	Issue No.	133
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.682140 °	38.682140 °
				-121.634083 °	-121.634083 °
DWR ID	DWR_RD1600_01_f_2013_133				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : SP_2015_RD1600_191_133_20150324_00040.jpg



The erosion on the landside shoulder is caused by foot traffic. Fall 2013

LM Start	0.56	Rating **	M	Issue No.	6
LM End	0.66	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.682707 °	38.684106 °
				-121.633830 °	-121.634219 °
DWR ID	DWR_RD1600_01_f_2014_6				
Action/Comments					
Inspector Comments: 2000 - Very cohesive vertical bank. 2003 - Some minor new erosion. 2006 - Some minor erosion in old pockets. 2009 - Minimal new erosion. 2011 - Multiple new erosion pockets and a few new tree popouts. 2013: No observed changes. [2013 Site ID: SAC_71-3_R]					

Photo 1 of 1 : SP_2015_RD1600_191_6_20150324_00007.jpg



USACE 2013 Photo #1

LM Start	0.78	Rating **	A/W	Issue No.	624
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.685713 °	38.685713 °
				-121.634985 °	-121.634985 °
DWR ID	DWR_RD1600_01_s_2015_624				
Action/Comments					
Trees / Woody Vegetation					

Photo 1 of 1 : SP_2015_RD1600_191_624_20150324_00048.jpg



The tree is dying and needs to be monitored so there is no threat to the levee. Spring 2014

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	0.83	Rating **	A/W	Issue No.	625
LM End	0.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.686515 °	38.686515 °
				-121.635134 °	-121.635134 °
DWR ID	DWR_RD1600_01_s _ 2014_625				
Action/Comments					
Trees / Woody Vegetation					

Photo 1 of 1 : SP_2015_RD1600_191_625_20150324_00049.jpg



The tree is dying and needs to be monitored so there is no threat to the levee. Spring 2014

LM Start	0.95	Rating **	M	Issue No.	9
LM End	0.95	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.688030 °	38.688030 °
				-121.635367 °	-121.635367 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15285 DS_ID:21463 EP_NO: 6100 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve will not open or close. FIELD_STRUCT_DESC: 12-inch pipe through levee 3.4 feet below crown. Slant pump and gate valve on the waterward- slope. Siphon breaker in 12-inch steel riser on the landward shoulder. Filter, booster pump, and butterfly valve on LS toe. 2.25-inch galvanized iron electrical conduit at same location (Permit No. 6100, 1968). Replaced 8-inch pipe at same location. FS Date: 06/18/2013					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	0.97	Rating **	M	Issue No.	134
LM End	0.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.688454 °	38.688454 °
				-121.635528 °	-121.635528 °
DWR ID	DWR_RD1600_01_f_2013_134				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : SP_2015_RD1600_191_134_20150324_00041.jpg



The levee has a deep depression caused by slope stability. Fall 2013

LM Start	1.01	Rating **	A/W	Issue No.	22
LM End	1.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.689078 °	38.690267 °
				-121.635605 °	-121.635650 °
DWR ID	DWR_RD1600_01_s_2012_22				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : SP_2015_RD1600_191_22_20150324_00022.jpg



The revegetation site along the berm and shoulder of the river.

LM Start	1.01	Rating **	A/W	Issue No.	22 (cont)
LM End	1.09	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1600_191_22_20150324_00023.jpg



Revegetation site. Photo taken spring 2012.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	1.18	Rating **	C	Issue No.	41
LM End	5.70	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.691471 °	38.747273 °
				-121.635741 °	-121.598698 °
DWR ID	DWR_RD1600_01_f_2014_41				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	1.18	Rating **	C	Issue No.	39
LM End	5.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.691472 °	38.749167 °
				-121.635740 °	-121.597261 °
DWR ID	DWR_RD1600_01_f_2014_39				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	1.39	Rating **	M	Issue No.	4
LM End	1.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.694395 °	38.694395 °
				-121.634376 °	-121.634376 °
DWR ID	DWR_RD1600_01_f_2012_4				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Damage looks like caused by vehicles.					

Photo 1 of 2 : SP_2015_RD1600_191_4_20150324_00003.jpg



Erosion from vehicles on levee slope. Spring 2013

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	1.39	Rating **	M	Issue No.	4 (cont)	
LM End	1.39	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.694395 °	38.694395 °	
				-121.634376 °	-121.634376 °	
DWR ID	DWR_RD1600_01_f_2012_4					
Action/Comments						
Schedule repair of erosion site prior to the next inspection.						
Inspector Comments: Damage looks like caused by vehicles.						

Photo 2 of 2 : SP_2015_RD1600_191_4_20150324_00004.jpg



Vehicles and people have created some erosion on the levee. Fall 2012

LM Start	1.40	Rating **	A/W	Issue No.	5
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.694589 °	38.694589 °
				-121.634286 °	-121.634286 °
DWR ID	DWR_RD1600_01_f_2012_5				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : SP_2015_RD1600_191_5_20150324_00005.jpg



Flats of plant material to be planted at the site. Fall 2012

LM Start	1.40	Rating **	A/W	Issue No.	5 (cont)
LM End	1.40	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1600_191_5_20150324_00006.jpg



Revegetation site. Fall 2012.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	1.56	Rating **	C	Issue No.	7
LM End	1.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.696748 °	38.696748 °
				-121.633201 °	-121.633201 °
DWR ID	DWR_RD1600_01_f_2012_7				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.70	Rating **	M	Issue No.	626
LM End	1.70	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.698415 °	38.698415 °
				-121.631850 °	-121.631850 °
DWR ID	DWR_RD1600_01_s_2015_626				
Action/Comments					
Debris					

Photo 1 of 1 : SP_2015_RD1600_191_626_20150326_00253.jpg



View of debris on the waterward side of the levee looking downstream. Spring 2015.

LM Start	1.72	Rating **	A/W	Issue No.	31
LM End	1.72	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.698613 °	38.698613 °
				-121.631710 °	-121.631710 °
DWR ID	DWR_RD1600_01_s_2012_31				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : SP_2015_RD1600_191_31_20150324_00030.jpg



A photo of an Elderberry bush in the area.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	1.72	Rating **	A/W	Issue No.	31 (cont)	
LM End	1.72	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.698613 °		38.698613 °
				-121.631710 °		-121.631710 °
DWR ID	DWR_RD1600_01_s_2012_31					
Action/Comments						
Environmental Requirements.						

Photo 2 of 2 : SP_2015_RD1600_191_31_20150324_00031.jpg



Revegetation site with the Elderberry Beetle. Photo taken spring 2012.

LM Start	1.76	Rating **	M	Issue No.	137
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.699130 °	38.699130 °
				-121.631300 °	-121.631300 °
DWR ID	DWR_RD1600_01_f_2013_137				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

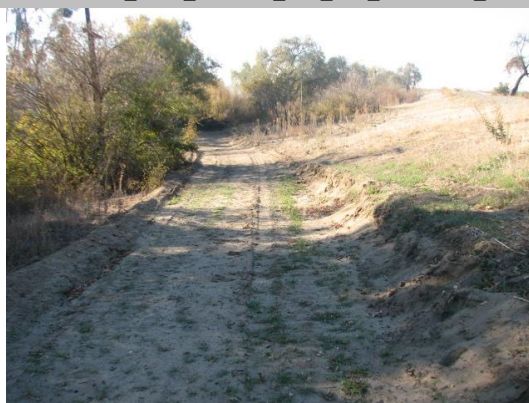
Photo 1 of 2 : SP_2015_RD1600_191_137_20150324_00043.jpg



A look at the cut done by the dozer. Fall 2013

LM Start	1.76	Rating **	M	Issue No.	137 (cont)
LM End	1.76	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1600_191_137_20150324_00044.jpg

It appears that a dozer has pushed a pile of brush to the waters edge.
Fall 2013

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1600 Mull

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	2.40	Rating **	M	Issue No.	143
LM End	2.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.705152 °	38.705152 °
				-121.622190 °	-121.622190 °
DWR ID	DWR_RD1600_01_f_2013_143				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : SP_2015_RD1600_191_143_20150324_00047.jpg



The levee slope appears to have slipped at the shoulder. Fall 2013

LM Start	2.52	Rating **	M	Issue No.	1191
LM End	3.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.706438 °	38.711530 °
				-121.620890 °	-121.614073 °
DWR ID	DWR_RD1600_01_s_2015_1191				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: It is currently being grazed by goats.					

No Photos

LM Start	2.81	Rating **	C	Issue No.	135
LM End	2.81	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.709381 °	38.709381 °
				-121.616869 °	-121.616869 °
DWR ID	DWR_RD1600_01_s_2014_135				
Action/Comments					
Debris					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	2.83	Rating **	M	Issue No.	15
LM End	2.83	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.709350 °	38.709350 °
				-121.616913 °	-121.616913 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15108					
DS_ID:21467					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Appears abandoned and should be done so properly. Debris buildup on pier. Power cut to pump.					
FIELD_STRUCT_DESC: 16-inch pipe through levee 2-feet below crown. Walkway from berm to pump on pile structure in the stream.					
Siphon breaker on the landward slope. 12-inch PVC standpipe off LS toe. Originally included in 1955 O+M manual.					
FS Date: 06/18/2013					

No Photos

LM Start	2.94	Rating **	M	Issue No.	16
LM End	2.94	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.710497 °	38.710497 °
				-121.615381 °	-121.615381 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15110 DS_ID:21490 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned and should be removed from levee. FIELD_STRUCT_DESC: *Abandoned* 10-inch concrete pipe through levee 5.0 feet below crown. Pipe visible on LS slope. Originally included in the 1955 O&M manual. FS Date: 06/18/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	3.04	Rating **	A/W	Issue No.	37
LM End	3.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.711597 °	38.711597 °
				-121.613890 °	-121.613890 °
DWR ID	DWR_RD1600_01_s _ 2012_37				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD1600_191_37_20150324_00034.jpg



A large stand of elderberries on the landside slope. Fall 2012

LM Start	3.04	Rating **	M	Issue No.	140
LM End	3.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.711655 °	38.711655 °
				-121.613871 °	-121.613871 °
DWR ID	DWR_RD1600_01_f _ 2013_140				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : SP_2015_RD1600_191_140_20150324_00045.jpg



Erosion caused by vehicle traffic on the landside slope. Fall 2013

LM Start	3.34	Rating **	M	Issue No.	1192
LM End	10.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.714982 °	38.765220 °
				-121.610248 °	-121.635113 °
DWR ID	DWR_RD1600_01_s _ 2015_1192				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	3.57	Rating **	M	Issue No.	627
LM End	3.57	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.717717 °	38.717717 °
				-121.608015 °	-121.608015 °
DWR ID	DWR_RD1600_01_s_2014_627				
Action/Comments					
Debris					

Photo 1 of 1 : SP_2015_RD1600_191_627_20150324_00051.jpg



Metal pipe and wood debris is on the waterside berm. Spring 2014

LM Start	3.58	Rating **	M	Issue No.	8
LM End	3.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.717770 °	38.721351 °
				-121.607423 °	-121.606414 °
DWR ID	DWR_RD1600_01_f_2014_8				
Action/Comments					
Inspector Comments: 1997 - Steep high bank. 2005 - Some small pockets in the low toe near the waterline. 2006 - Minor slope clearing. 2010 - Minor new erosion. 2011 - Multiple trees have fallen since last year. Some other trees look ready to fall. Significant new erosion since last year. 2012 - Minor new erosion. 2013: Minor new erosion. [2013 Site ID: SAC_74-4_R]					

Photo 1 of 1 : SP_2015_RD1600_191_8_20150324_00010.jpg



USACE 2013 Photo #1

LM Start	3.59	Rating **	M	Issue No.	628
LM End	3.59	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.718080 °	38.718080 °
				-121.607815 °	-121.607815 °
DWR ID	DWR_RD1600_01_s_2014_628				
Action/Comments					
Debris					

Photo 1 of 1 : SP_2015_RD1600_191_628_20150324_00052.jpg



Concrete debris is on the waterside berm. Spring 2014

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	3.68	Rating **	C	Issue No.	629
LM End	3.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.719229 °	38.719229 °
				-121.607312 °	-121.607312 °
DWR ID	DWR_RD1600_01_s _ 2015_629				
Action/Comments					
Tree stumps.					

No Photos

LM Start	3.76	Rating **	M	Issue No.	2
LM End	3.76	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.720417 °	38.720417 °
				-121.606962 °	-121.606962 °
DWR ID	DWR_RD1600_01_s _ 2013_2				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: Trees have fallen over and created bank erosion.					

Photo 1 of 1 : SP_2015_RD1600_191_2_20150324_00002.jpg



Trees have fallen and the water has created the erosion into the berm.
Spring 2013

LM Start	4.21	Rating **	M	Issue No.	10
LM End	4.86	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.728684 °	38.736110 °
				-121.605844 °	-121.604153 °
DWR ID	DWR_RD1600_01_f _ 2014_10				
Action/Comments					
Inspector Comments: 1997 - Very steep bank. 2005 - Lots of small trees down along the bank at the upstream end. 2006 - Minor new erosion, but slow. 2010 - Almost all of the roots are exposed on the trees, appears ready to fall. 2011 - New erosion and tree popouts. 2012 - Site has become overgrown with vegetation, making it hard to observe. 2013: No observed changes. [2013 Site ID: SAC_75-3_R]					

Photo 1 of 1 : SP_2015_RD1600_191_10_20150324_00011.jpg



USACE 2013 Photo #1

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	4.53	Rating **	M	Issue No.	23
LM End	4.53	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.731143 °	38.731143 °
				-121.605825 °	-121.605825 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15125 DS_ID:21470 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pumphouse abandoned with deep pit open. Safety issue. If plant is abandoned it should be done so properly. FIELD_STRUCT_DESC: 24-inch pipe through the levee 21.4 feet below the crown. 16-inch pipe ties into 24-inch at WS slope. Slant pump on metal platform and gate valve on water side berm. Gate valve in pump house off the landward side. Two power poles at the toe of the landward slope. FS Date: 06/18/2013					

No Photos

LM Start	4.54	Rating **	M	Issue No.	24
LM End	4.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.731280 °	38.731280 °
				-121.605825 °	-121.605825 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41563					
DS_ID:21471					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe should be removed from slope.					
FIELD_STRUCT_DESC: *Abandoned* 12-inch pipe through the levee					
5.5 feet below the crown. Grouted in place 1957.					
FS Date: 06/18/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	4.75	Rating **	M	Issue No.	1193
LM End	4.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.734557 °	38.734557 °
				-121.605133 °	-121.605133 °
DWR ID	DWR_RD1600_01_s_2015_1193				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD1600_191_1193_20150326_00254.jpg



View of vegetation on the landward side of the levee looking upstream.
Spring 2015.

LM Start	4.76	Rating **	M	Issue No.	1194
LM End	4.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.734760 °	38.734760 °
				-121.605008 °	-121.605008 °
DWR ID	DWR_RD1600_01_s_2015_1194				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.77	Rating **	M	Issue No.	141
LM End	4.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.734840 °	38.734840 °
				-121.605026 °	-121.605026 °
DWR ID	DWR_RD1600_01_f_2013_141				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : SP_2015_RD1600_191_141_20150324_00046.jpg



The erosion at the shoulder of the levee could be slope instability. Fall
2013

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	4.78	Rating **	M	Issue No.	1195
LM End	4.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.734972 °	38.734972 °
				-121.604953 °	-121.604953 °
DWR ID	DWR_RD1600_01_s _ 2015_1195				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.80	Rating **	M	Issue No.	1196
LM End	4.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.735312 °	38.735312 °
				-121.604890 °	-121.604890 °
DWR ID	DWR_RD1600_01_s _ 2015_1196				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.82	Rating **	N	Issue No.	14
LM End	4.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.735608 °	38.735608 °
				-121.604794 °	-121.604794 °
DWR ID	DWR_RD1600_01_s _ 2013_14				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : SP_2015_RD1600_191_14_20150324_00015.jpg



Tree stumps on the levee slope has been sprayed. Fall 2013

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	4.85	Rating **	M	Issue No.	1197
LM End	4.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.736028 °	38.736028 °
				-121.604697 °	-121.604697 °
DWR ID	DWR_RD1600_01_s_2015_1197				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.87	Rating **	C	Issue No.	25
LM End	4.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.736250 °	38.736250 °
				-121.604605 °	-121.604605 °
DWR ID	DWR_RD1600_01_f_2012_25				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Hole in pipe causing erosion of levee slope. Replace pipe and repair damage.					

No Photos

LM Start	4.90	Rating **	U	Issue No.	26
LM End	4.90	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.736299 °	38.736299 °
				-121.604582 °	-121.604582 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15130 DS_ID:21487 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: No pump on pier and pipe open on both ends without					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	5.41	Rating **	A/W	Issue No.	13
LM End	5.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.743632 °	38.743632 °
				-121.601173 °	-121.601173 °
DWR ID	DWR_RD1600_01_s _ 2012_13				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD1600_191_13_20150324_00014.jpg



A thick stand of elderberries on the landside. Fall 2012

LM Start	5.44	Rating **	M	Issue No.	19
LM End	5.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.744118 °	38.748210 °
				-121.601104 °	-121.598025 °
DWR ID	DWR_RD1600_01_s _ 2012_19				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Levee district had us add this because of the loss of the berm over years of water flows. Erosion is at the waters edge. Walnut trees are close to edge now.					

No Photos

LM Start	5.81	Rating **	M	Issue No.	1198
LM End	5.81	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.748648 °	38.748648 °
				-121.597645 °	-121.597645 °
DWR ID	DWR_RD1600_01_s _ 2015_1198				
Action/Comments					
Debris					

Photo 1 of 1 : SP_2015_RD1600_191_1198_20150326_00255.jpg



View of debris on the waterward side of the levee looking downstream.
Spring 2015.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	5.85	Rating **	M	Issue No.	40
LM End	10.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.749166 °	°
				-121.597261 °	°
DWR ID	DWR_RD1600_01_f_2014_40				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 2 : SP_2015_RD1600_191_40_20150324_00035.jpg



Levee mile 5.80, vegetation on the water side slope.

LM Start	5.85	Rating **	M	Issue No.	40 (cont)
LM End	10.51	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1600_191_40_20150324_00036.jpg



Levee mile 5.80, vegetation on the land side slope.

LM Start	6.22	Rating **	U	Issue No.	36
LM End	6.22	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.753820 °	38.753820 °
				-121.595012 °	-121.595012 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15207 DS_ID:21476 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe is abandoned and open on both ends. It should					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	6.30	Rating **	M	Issue No.	11
LM End	6.36	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.755246 °	38.756186 °
				-121.594206 °	-121.594024 °
DWR ID	DWR_RD1600_01_f_2014_11				
Action/Comments					
Inspector Comments: 2011 - Large vertical eroded face from a rotational failure just below pump. 2013: No observed changes. [2013 Site ID: SAC_77-0_R]					

Photo 1 of 1 : SP_2015_RD1600_191_11_20150324_00012.jpg



USACE 2013 Photo #1

LM Start	6.39	Rating **	M	Issue No.	1199
LM End	6.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.756612 °	38.756612 °
				-121.594370 °	-121.594370 °
DWR ID	DWR_RD1600_01_s_2015_1199				
Action/Comments					
Inspector Comments: The erosion is caused by the water coming from the siphon breaker.					

Photo 1 of 1 : SP_2015_RD1600_191_1199_20150326_00256.jpg



View of erosion and pipe on the landward side of the levee looking upstream. Spring 2015.

LM Start	6.60	Rating **	M	Issue No.	631
LM End	6.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.759685 °	38.759685 °
				-121.594109 °	-121.594109 °
DWR ID	DWR_RD1600_01_s_2014_631				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_RD1600_191_631_20150324_00054.jpg



The tall brush and vegetation blocks visibility. Spring 2014

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

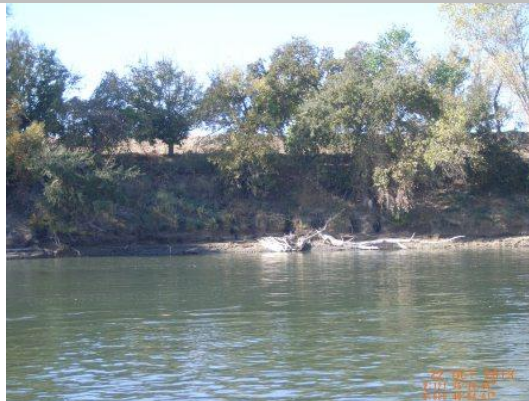
Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	6.95	Rating **	M	Issue No.	12
LM End	6.98	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.764801 °	38.765219 °
				-121.594926 °	-121.595049 °
DWR ID	DWR_RD1600_01_f_2014_12				
Action/Comments					
Inspector Comments: 2006 - Eddy scour off end of rock causing erosion and scour hole near levee. Sandy silt bank with rock on upstream end. 2010 - Trees are leaning more, minor new erosion. 2011 - Many of the tree roots have scoured out and trees look ready to fall. 2013: No observed changes. [2013 Site ID: SAC_77-7_R]					

Photo 1 of 1 : SP_2015_RD1600_191_12_20150324_00013.jpg



USACE 2013 Photo #1

LM Start	6.97	Rating **	M	Issue No.	30
LM End	6.97	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.764943 °	38.764943 °
				-121.595504 °	-121.595504 °
DWR ID	DWR_RD1600_01_s_2013_30				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : SP_2015_RD1600_191_30_20150324_00029.jpg



Erosion is into the berm area and needs to be monitored. Spring 2013

LM Start	6.97	Rating **	M	Issue No.	27
LM End	6.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.764974 °	38.764974 °
				-121.595533 °	-121.595533 °
DWR ID	DWR_RD1600_01_s_2012_27				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : SP_2015_RD1600_191_27_20150324_00026.jpg



The erosion appears to be moving closer to the shoulder.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	7.09	Rating **	M	Issue No.	20
LM End	7.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.766505 °	38.766505 °
				-121.596214 °	-121.596214 °
DWR ID	DWR_RD1600_01_s _ 2012_20				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 2 : SP_2015_RD1600_191_20_20150324_00018.jpg



This another view of the site.

LM Start	7.09	Rating **	M	Issue No.	20 (cont)
LM End	7.09	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1600_191_20_20150324_00019.jpg



The erosion is eroding away at the berm area.

LM Start	7.23	Rating **	M	Issue No.	21
LM End	7.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.768409 °	38.768409 °
				-121.597213 °	-121.597213 °
DWR ID	DWR_RD1600_01_s _ 2012_21				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 2 : SP_2015_RD1600_191_21_20150324_00020.jpg



The erosion is eroding away the berm area.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	7.23	Rating **	M	Issue No.	21 (cont)
LM End	7.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.768409 °	38.768409 °
				-121.597213 °	-121.597213 °
DWR ID	DWR_RD1600_01_s_2012_21				
Action/Comments					
Note and monitor erosion site.					

Photo 2 of 2 : SP_2015_RD1600_191_21_20150324_00021.jpg



The bank is eroding away and has become very steep.

LM Start	7.60	Rating **	U	Issue No.	38
LM End	7.60	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.772560 °	38.772560 °
				-121.600153 °	-121.600153 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15264 DS_ID:21496 EP_NO: 1596 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe leaking and causing erosion on LS slope. Likely this pipe has severe internal corrosion and likely needs to be replaced. No 24-inch pipes found at this location...only a 30-inch. FIELD_STRUCT_DESC: 30-inch riveted steel irrigation pipe through the levee 5.5 feet below the crown. Gate valve in pump house on the waterward slope. Slant pump on structure on the bank. Walkway from the pump house to the structure. 2-inch galvanized iron electrical conduit at same location (Permit No. 1596, 1959). FS Date: 06/20/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	8.07	Rating **	M	Issue No.	42
LM End	8.07	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.777799 °	38.777799 °
				-121.605763 °	-121.605763 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:16310 DS_ID:21480 EP_NO: 7339 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine disposition of pipe. If abandoned, it should be done so properly. FIELD_STRUCT_DESC: 24-inch steel pipe through levee 3.8 feet below crown. Steel plate welded on the waterward end. Pipe not visible on either slope. Pilons in river at WS toe and a 4-foot diameter steel standpipe on the LS toe (Permit No. 7339, 1977) Seepage area at toe of the landward slope. FS Date: 06/20/2013					

No Photos

LM Start	8.21	Rating **	M	Issue No.	1200
LM End	8.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.778938 °	38.778938 °
				-121.608595 °	-121.608595 °
DWR ID	DWR_RD1600_01_s _ 2015_1200				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2015 03/24/2015	Jai Lor

LM Start	8.88	Rating **	M	Issue No.	634
LM End	8.88	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.782002 °	38.782002 °
				-121.620403 °	-121.620403 °
DWR ID	DWR_RD1600_01_s _ 2014_634				
Action/Comments					
Pipe					

Photo 1 of 1 : SP_2015_RD1600_191_634_20150324_00055.jpg



Irrigation pipe is being stored on the landside. Spring 2014

LM Start	9.59	Rating **	M	Issue No.	1201
LM End	9.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.776493 °	38.776493 °
				-121.629160 °	-121.629160 °
DWR ID	DWR_RD1600_01_s _ 2015_1201				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	10.38	Rating **	M	Issue No.	1202
LM End	10.38	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.766363 °	38.766363 °
				-121.634317 °	-121.634317 °
DWR ID	DWR_RD1600_01_s _ 2015_1202				
Action/Comments					
Debris					

Photo 1 of 1 : SP_2015_RD1600_191_1202_20150326_00257.jpg

View of debris on the waterward side of the levee looking upstream.
Spring 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Reclamation District No. 1600 Mull

Waterway			Bank	Unit Miles
Unit No. 02 Yolo Bypass			Left	4.23
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/26/2015 - 04/15/2015			
DWR Inspector	Jai Lor			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/26/2015 04/15/2015	Jai Lor

LM Start	0.00	Rating **	M	Issue No.	290
LM End	1.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.736262 °	38.712493 °
				-121.633622 °	-121.636352 °
DWR ID	DWR_RD1600_02_s _ 2015_290				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD1600_192_290_20150326_00020.jpg



View of vegetation on the landward side of the levee looking downstream. Spring 2015.

LM Start	0.00	Rating **	M	Issue No.	291
LM End	1.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.736262 °	38.712493 °
				-121.633622 °	-121.636352 °
DWR ID	DWR_RD1600_02_s _ 2015_291				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.05	Rating **	M	Issue No.	292
LM End	0.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.735487 °	38.735487 °
				-121.633622 °	-121.633622 °
DWR ID	DWR_RD1600_02_s _ 2015_292				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 1 : SP_2015_RD1600_192_292_20150326_00021.jpg



View of depression on the crown of the levee looking downstream. Spring 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/26/2015 04/15/2015	Jai Lor

LM Start	0.30	Rating **	A/W	Issue No.	11
LM End	0.79	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting				° 38.724869 °
					° -121.633411 °
DWR ID	DWR_RD1600_02_s _ 2012_11				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

Photo 1 of 1 : SP_2015_RD1600_192_11_20150324_00008.jpg



This area is soft and needs to have AB added to make an all weather surface.

LM Start	0.36	Rating **	M	Issue No.	293
LM End	0.36	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.730972 °	38.730972 °
				-121.633477 °	-121.633477 °
DWR ID	DWR_RD1600_02_s _ 2015_293				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

No Photos

LM Start	0.49	Rating **	M	Issue No.	294
LM End	0.49	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.729167 °	38.729167 °
				-121.633405 °	-121.633405 °
DWR ID	DWR_RD1600_02_s _ 2015_294				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/26/2015 04/15/2015	Jai Lor

LM Start	0.56	Rating **	M	Issue No.	295
LM End	0.56	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.728205 °	38.728205 °
				-121.633428 °	-121.633428 °
DWR ID	DWR_RD1600_02_s _ 2015_295				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

No Photos

LM Start	0.81	Rating **	M	Issue No.	31
LM End	2.16	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.724513 °	38.705577 °
				-121.633425 °	-121.639341 °
DWR ID	DWR_RD1600_02_s _ 2012_31				
Action/Comments					
Keep the crown roadway free of vegetation.					

Photo 1 of 2 : SP_2015_RD1600_192_31_20150324_00013.jpg



The crown of the levee needs to be weed free. Fall 2012

Photo 2 of 2 : SP_2015_RD1600_192_31_20150324_00014.jpg



The crown roadway needs to be free of weeds. Photo taken spring 2012.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/26/2015 04/15/2015	Jai Lor

LM Start	1.53	Rating **	M	Issue No.	6
LM End	1.53	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.714343 °	38.714343 °
				-121.635628 °	-121.635628 °
DWR ID	DWR_RD1600_02_s _ 2013_6				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 2 : SP_2015_RD1600_192_6_20150324_00003.jpg



Ruts in the levee crown. Spring 2013

LM Start	1.53	Rating **	M	Issue No.	6 (cont)
LM End	1.53	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP_2015_RD1600_192_6_20150324_00004.jpg



Ruts in the all weather road need to be repaired. Spring 2014

LM Start	1.66	Rating **	U	Issue No.	3
LM End	2.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.712493 °	38.703625 °
				-121.636352 °	-121.640142 °
DWR ID	DWR_RD1600_02_s _ 2015_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/26/2015 04/15/2015	Jai Lor

LM Start	1.66	Rating **	U	Issue No.	4
LM End	2.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.712493 °	38.703625 °
				-121.636352 °	-121.640142 °
DWR ID	DWR_RD1600_02_s _ 2015_4				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD1600_192_4_20150326_00022.jpg



View of vegetation on the waterward side of the levee looking downstream. Spring 2015.

LM Start	1.67	Rating **	M	Issue No.	32
LM End	1.67	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.712382 °	38.712382 °
				-121.636417 °	-121.636417 °
DWR ID	DWR_RD1600_02_s _ 2012_32				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 3 : SP_2015_RD1600_192_32_20150324_00015.jpg



The crown has ruts deeper then six inches. Fall 2012

LM Start	1.67	Rating **	M	Issue No.	32 (cont)
LM End	1.67	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : SP_2015_RD1600_192_32_20150324_00016.jpg



Tire ruts are deeper than 6 inches on the crown. Fall 2013

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/26/2015 04/15/2015	Jai Lor

LM Start	1.67	Rating **	M	Issue No.	32 (cont)
LM End	1.67	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.712382 °	38.712382 °
				-121.636417 °	-121.636417 °
DWR ID	DWR_RD1600_02_s_2012_32				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 3 of 3 : SP_2015_RD1600_192_32_20150324_00017.jpg



Ruts in the all weather road needs to be repaired. Spring 2014

LM Start	1.79	Rating **	M	Issue No.	14
LM End	2.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.710763 °	38.707116 °
				-121.637147 °	-121.638722 °
DWR ID	DWR_RD1600_02_s_2012_14				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 2 : SP_2015_RD1600_192_14_20150324_00009.jpg



A closer view of the wave wash damage along the bypass.

LM Start	1.79	Rating **	M	Issue No.	14 (cont)
LM End	2.05	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1600_192_14_20150324_00010.jpg



Wave wash damage along the slope the cut is 1'-2'.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/26/2015 04/15/2015	Jai Lor

LM Start	2.03	Rating **	M	Issue No.	7
LM End	2.03	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.707403 °	38.707403 °
				-121.638568 °	-121.638568 °
DWR ID	DWR_RD1600_02_s_2013_7				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 3 : SP_2015_RD1600_192_7_20150324_00005.jpg



Ruts in the levee crown. Spring 2013

LM Start	2.03	Rating **	M	Issue No.	7 (cont)
LM End	2.03	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : SP_2015_RD1600_192_7_20150324_00006.jpg



Tire ruts are deeper than 6 inches on the crown. Fall 2013

LM Start	2.03	Rating **	M	Issue No.	7 (cont)
LM End	2.03	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : SP_2015_RD1600_192_7_20150324_00007.jpg



Ruts in the all weather road needs to be repaired. Spring 2014

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/26/2015 04/15/2015	Jai Lor

LM Start	2.16	Rating **	M	Issue No.	15
LM End	2.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.705614 °	38.704052 °
				-121.639357 °	-121.640016 °
DWR ID	DWR_RD1600_02_s _ 2012_15				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: This is wave wash damage caused by last high water.					

Photo 1 of 2 : SP_2015_RD1600_192_15_20150324_00011.jpg



Looking upstream a deeper cut of 2'-3' damage.

LM Start	2.16	Rating **	M	Issue No.	15 (cont)
LM End	2.27	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1600_192_15_20150324_00012.jpg



This is wave wash damage along the toe of the levee looking downstream.

LM Start	3.10	Rating **	M	Issue No.	297
LM End	4.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.692687 °	38.677014 °
				-121.644861 °	-121.643321 °
DWR ID	DWR_RD1600_02_s _ 2015_297				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD1600_192_297_20150415_00023.jpg



View of the vegetation on the waterward side of the levee looking upstream. Spring 2015

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/26/2015 04/15/2015	Jai Lor

LM Start	3.10	Rating **	M	Issue No.	298
LM End	4.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.692686 °	38.677013 °
				-121.644861 °	-121.643323 °
DWR ID	DWR_RD1600_02_s _ 2015_298				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	3.41	Rating **	M	Issue No.	300
LM End	3.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.688243 °	38.688243 °
				-121.645010 °	-121.645010 °
DWR ID	DWR_RD1600_02_s _ 2015_300				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	3.53	Rating **	M	Issue No.	299
LM End	3.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.686436 °	38.686436 °
				-121.644799 °	-121.644799 °
DWR ID	DWR_RD1600_02_s _ 2015_299				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD1600_192_299_20150417_00024.jpg



View of the elderberry on the landward side of the levee looking upstream. Spring 2015.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/26/2015 04/15/2015	Jai Lor

LM Start	3.69	Rating **	U	Issue No.	1
LM End	3.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.683971 °	38.683971 °
				-121.644522 °	-121.644522 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:16308 DS_ID:21501 EP_NO: 10944 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Need to install gasline markers on levee. FIELD_STRUCT_DESC: 8.625-inch steel gas line through levee 2.0 feet below crown (Permit No. 10944, 1976). FS Date: 06/21/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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